Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

No.KMTH/PMC/YD/2021-2022/W3

Date:13-12-2021

To,
The Executive Engineer
Yelahanka division,
Bruhat Bengaluru Mahanagara Palike, Bengaluru.

"FREQUENCY AND QUALITY REPORT"

Dear Sir,

Sub: Regarding inspection report for the below mentioned work.

Name of Work: Improvements to Roads and Drains and other developmental works in Attur Ward No-03 Under Road Development head in Chief Minister Navanagaraothana of Yelahanka Division (Package -02)

Item No	Description Of Work	Unit	Standards	Quantities				Total Quantity
				1st&Part		2nd&Final		
1	Providing and Laying Plain Cement Concrete of Mix 1:4:8 with OPC @220Kgs With Crushed 40mm and Down Size Graded Granite.	Cum	Per 100 Cum	53.25	6.00	75.71	12.00	128.96
2	Providing TMT Steel Reinforcement for RCC work Including Straightening, Cutting, Bending, Hooking, Placing in Positions.	Tonnes	For Each Dia	1.40	3.00	4.05	3.00	5.45
3	Providing and Laying Reinforced Cement Concrete for Side Drains using M20 Nominal Mix Concrete with OPC@300Kgs with 20mm Down Size.	Cum	Per 50 Cum	25.03	6.00	149.91	12.00	174.94
4	providing and fixing precast reinforced concrete slab 10cm thick of mix M20 using 20mm and downsize graded granite metal using reinforcement 10mm dia steel at 150mm C/c both ways.	Sqm	Per 500 Sqm	0.00	0.00	2943.09	9.00	2943.09
5	Providing and fixing RCC Precast cover slab of 250mm thick for Culverts in cement concrete 1:1:3 using graded granite Jelly 20mm & down size.	Sqm	Per 50 Sqm	53.25	6.00	142.65	6.00	195.90
	Providing & fixing precaste solid concrete kerb stones of size 450X200X400mm maid out of CC M20:4 and finished with CM 1:3 plastering and finishing cutting etc., complete.	No's	Per 250 No's	0.00	0.00	4256.50	12.00	4256.50

Off & Lab :No. 8 (10/3), 4th cross, Basaveshwara layout, Nagashettihalli, RMV 2nd Stage, BENGALURU 560094
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7	Construction of granular sub-base Grading-v as sub-base and drainage layer by providing coarse graded crushed stone aggregates of granitr/trap/basalt materials, mixing by mix in place method by rotavatory at OMC spreading in uniform layers with motor grader on prepared surface and compacting with vibrator power roller to achieve the 98% proctor density, complete as per specifications. Clause 401 of MORTH V revision.	Cum	Per 400 Cum	7731.69	10.00	0.00	0.00	7731.69
8	KSRRB M400-17 Proving, laying, spreading and compacting crushed stone aggregates of granite/trap/basalt to wetmix macadam specifications including pre mixing the materials with water at OMC in mechanical mix plant carriage of mixed materials by tippers to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory rollers to achieve the desired density complete as per specifications. MORTH specification No. 406	Cum	Per 400 Cum	12569.41	10.00	1233.21	4.00	13802.62
9	KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, lavel and allignment, rolling with smooth wheeled, vibratory and tandom rollers to achieve the desired compaction as per MORTH table 500-10 Complete in all respects compete as per specifications MORTH specification No. 507. using 100/120 TPH capacity HMP with sensor paver Gr-II (50mm to 75mm) with 4.5 % VG-30 Bitumen.	Cum	Per 250 Cum	2448.36	10.00	184.68	4.00	2633.04
	providing and laying bituminous concrete 40mm thick with hot mix plant, using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4% of modified bituminious binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and 0.43% of plastomeric thermoplastic(waste plastic) crushed aggregates of specified grading pre mixxed with bituminous binder and filler, transporting the hot mix to the work site, laying with a paver finisher to the require grade, level and allignment and rolling with the smooth wheeled, vibratory and tandom rollers to achieve the desired compaction in all respect complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015	Cum	Per 250 Cum	2236.42	10.00	189.00	4.00	2425.42

	KSRB 14.6-1 : Providing and laying heavy duty cobble stones 60mm thick interlock pavers, using cement and course sand for manufacture of blocks od approved size, shape and colour with a minimum compressive strength of 281kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machineries	Sqm	Per 500 Sqm	3070.44	6.00	5021.92	8.00	8092.36

With respect to the above subject and name of work, We have inspected the work , Quantity and Quality of above mentioned Items of work was found to be satisfactorily completed for the 2nd and Final Bill.

Thanking You,

With regards
Karnataka Material Test House Pvt Ltd.,

Narayanswamy.B
Managing Director

Karnataka Material Test House Pvt. Ltd. * Bangalore *

AE

Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

No.KMTH/PMC/YD/2021-22/W3

Date: 13-12-2021

To,
The Executive Engineer,
Yelahanka Old Town,
Sub Division, Bengaluru.

"FREQUENCY AND QUALITY REPORT"

Dear Sir,

Sub: Regarding Quality report for the below mentioned work.

Name of work:"Improvements to Roads and Drains and other developmental works in Attur Ward No-03 Under Road Development head in Chief Minister Navanagaraothana of Yelahanka Division (Package -02)"

Item No	Description of Work	Unit	Quantity	No of Samples Tested	Standards
1	Providing and Laying Plain Cement Concrete of Mix 1:4:8 with OPC @220Kgs With Crushed 40mm and Down Size Graded Granite.	Cum	75.71	12.0	Per 100 Cum
2	Providing TMT Steel Reinforcement for RCC work Including Straightening, Cutting, Bending, Hooking, Placing in Positions.	Tonnes	4.05	3.0	For Each Dia
3	Providing and Laying Reinforced Cement Concrete for Side Drains using M20 Nominal Mix Concrete with OPC@300Kgs with 20mm Down Size.	Cum	149.91	12.0	Per 50 Cum
4	providing and fixing precast reinforced concrete slab 10cm thick of mix M20 using 20mm and downsize graded granite metal using reinforcement 10mm dia steel at 150mm C/c both ways.	Sqm	2943.09	9.0	Per 500 Sqm
4	Providing and fixing RCC Precast cover slab of 250mm thick for Culverts in cement concrete 1:1.5:3 using graded granite Jelly 20mm & down size.	Sqm	142.65	6.0	Per 50 Sqm

Off & Lab :No. 8 (10/3), 4th cross, Basaveshwara layout, Nagashettihalli, RMV 2nd Stage, BENGALURU 560094
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5	Providining & fixing precaste solid concrete kerb stones of size 450X200X400mm maid out of CC 1:2:4 and finished with CM 1:3 plastering and finishing cutting etc., complete.	No's	4256.50	12.0	Per 250 No's
6	KSRRB M400-17 Proving, laying, spreading and compacting crushed stone aggregates of granite/trap/basalt to wetmix macadam specifications including pre mixing the materials with water at OMC in mechanical mix plant carriage of mixed materials by tippers to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory rollers to achieve the desired density complete as per specifications. MORTH specification No. 406	Cum	1233.21	4.0	Per 400 Cum
	KSRB 14.6-1 : Providing and laying heavy duty cobble stones 60mm thick interlock pavers, using cement and course sand for manufacture of blocks od approved size, shape and colour with a minimum compressive strength of 281kg per sqm over 50mm thick sand bed (average thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machineries	Sqm	5021.92	4.0	Per 500 Sqm
	KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, lavel and allignment, rolling with smooth wheeled, vibratory and tandom rollers to achieve the desired compaction as per MORTH table 500-10 Complete in all respects complete as per specifications MORTH specification No. 507. using 100/120 TPH capacity HMP with sensor paver Gr-II (50mm to 75mm) with 4.5 % VG-30 Bitumen.	Cum	184.68	4.0	Per 400 Cum

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Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

	providing and laying bituminous concrete 40mm thick with hot mix plant, using 40-60 TPH capacity HMP with mechanical paver grading II (30-45mm) with 5.4% of modified bituminious binder consisting of 4.97% of VG-30 bitumen (60/70 grade) and o.43% of plastomeric thermoplastic(waste plastic) crushed aggregates of specified grading pre mixxed with bituminous binder and filler, transporting the hot mix to the work site, laying with a paver finisher to the require grade, level and allignment and rolling with the smooth wheeled, vibratory and tandom rollers to achieve the desired compaction in all respect complete as per specifications. Clause 507 of MORTH V revision as per IRC SP-53-2015.	Cum	189.0	8.0	Per 400 Cum

With respect to the above Subject Name of work, we have inspected the work , Quantity and Quality of above mentioned Item of work was found to be satisfactorily completed for the 2nd And Final Bill

Thanking You,

With Regards,

Karnataka Material Test House Pvt Ltd.,

Narayanswamy.B
Managing Director

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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/F-Aggregate/2680/2021-22	Date	26-10-2021

TEST REPORT ON FINE AGGRERGATE

Name of Client & Address	Bruhat Bengaluru Mahanagara Palike Office of Executive Engineer Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Sri M.S. Venkatesh, M/s MSV Construction And Company No, 163, 5th Cross, 2nd Main Road, Prakashanagara Bangalore-560021
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Improvements to Roads And Drains And Other Developmental Work in Attur Ward No:03 Under Road Development Head in chief Minister Navanagaraothana of Yelahanka Division (Package-02)
Work Order No	BBMP/EE/YNK.D/EPMT-12/W.O/14/2020-21
Job Code No	003-20-000086
Date of Testing	26-10-2021
Technical Referance	IS: 2386 (Part I)– 1963 , IS: 383 – 2016

GRADATION OF FINE AGGEGATES

Weight of Sample			1000	g	PERCENTAGE OF PASSING (GRADING)			
Sieve No	Weight of Sample	Percentage of Retained sample	Cumulative Percentage of Retained sample	Percentage Finer	Zone-I	*Zone-II*	Zone-II	zone-IV
10	0	0	0	100	100	*100*	100	100
4.75	10.2	1.02	1.02	98.98	90 – 100	*90 – 100*	90 – 100	90-100
2.36	30.1	3.01	4.03	95.97	60 – 95	*75 – 100*	85 – 100	95-100
1.18	210.6	21.06	25.09	74.91	30 – 70	*55 – 90*	75 – 100	90-100
0.6	328.6	32.86	57.95	42.05	15 – 34	*35 – 59*	60 – 79	80-100
0.3	246.8	24.68	82.63	17.37	5 – 20	*8 – 30*	12 – 40	15-50
0.15	159.4	15.94	98.57	1.43	0 – 10	*0 – 10*	0 – 10	0-15

** As furnished by the client*

Note : The above tested sample satisfies the requirement of IS:383-2016

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

.....End of Report.....

Approved by
Narayanswamy.B

Note
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2. The results listed refer only to the samples and applicable parameters.
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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/C-Aggregate/2682/2021-22	Date	27-10-2021

TEST REPORT ON COARSE AGGRERGATE

Name of Client & Address	Bruhat Bengaluru Mahanagara Palike Office of Executive Engineer Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Sri M.S. Venkatesh, M/s MSV Construction And Company No, 163, 5th Cross, 2nd Main Road, Prakashanagara Bangalore-560021
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Improvements to Roads And Drains And Other Developmental Work in Attur Ward No:03 Under Road Development Head in chief Minister Navanagaraothana of Yelahanka Division (Package-02)
Work Order No	BBMP/EE/YNK.D/EPMT-12/W.O/14/2020-21
Job Code No	003-20-000086
Date of Testing	27-10-2021
Technical Referance	IS: 2386 (Part I)– 1963 IS: 383 – 2016

GRADATION OF COARSE AGGEGATES

20mm	Weight of Sample		5000		IS : 2386(Part-I) RA 2016		Remarks
Sieve No	Wt of Sample	% tage retained	Cumulative % retained	% tage finer	Single Size	Graded Size	
40	0	0.00	0.00	100.00	100	100	Sample conforms to IS: Stipulation for Grade size Aggregate of size 20mm.
20	402.6	8.05	8.05	91.95	85-100	90 to 100	
10	4068.2	81.36	89.42	10.58	0 to 20	25 to 55	
4.75	296.8	5.94	95.35	4.65	0 to 5	0 to 10	

40mm	Weight of Sample		5000		IS : 2386(Part-I) RA 2016		Remarks
Sieve No	Wt of Sample	% tage retained	Cumulative % retained	% tage finer	Single Size	Graded Size	
63	0	0.00	0.00	100	100	100	Sample conforms to IS: Stipulation for Single size Aggregate of size 40mm.
40	611.2	12.22	12.22	87.78	85-100	90 to 100	
20	3742.4	74.85	87.07	12.93	0 to 20	30 to 70	
10	412.4	8.25	95.32	4.68	0 to 5	10 to 25	
4.75	102.6	2.05	97.37	2.63	-	0 to 5	

** As furnished by the client*

Note : The above tested sample satisfies the requirement of IS:383-2016

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

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Approved by
Narayanswamy.B

.....End of Report.....

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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/Steel/2684/2021-22	Date	28-10-2021

TEST REPORT ON REINFORCEMENT STEEL

Name of Client & Address	Bruhat Bengaluru Mahanagara Palike Office of Executive Engineer Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Sri M.S. Venkatesh, M/s MSV Construction And Company No, 163, 5th Cross, 2nd Main Road, Prakashanagara Bangalore-560021
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Improvements to Roads And Drains And Other Developmental Work in Attur Ward No:03 Under Road Development Head in chief Minister Navanagaraothana of Yelahanka Division (Package-02)
Work Order No	BBMP/EE/YNK.D/EPMT-12/W.O/14/2020-21
Job Code No	003-20-000086
Date of Testing	28-10-2021
Technical Referance	IS: 1786 – 2008 & IS: 1608–2005

Tensile Test

Sl No.	Grade of Steel	Dia in	Weight / unit length (kg/m)	0.2% proof Stress (N/mm2)	Tensile Strength (N/mm2)	Percentage Elongation (on 5.65 ÖAG L)	Remarks
1	Fe-500	8	0.399	535.60	624.80	19.42	Passes
2		10	0.632	568.40	682.40	24.62	Passes
3		12	0.855	579.40	655.20	20.56	Passes

Bend Test

Sl. No.	Dia (mm)	Mandrel diameter	Angle of bend	Observations
1	8	4 dia	180°	No cracks observed. Passes the test.
2	10	4 dia	180°	No cracks observed. Passes the test.
3	12	4 dia	180°	No cracks observed. Passes the test.

Re bend Test

Sl. No.	Dia (mm)	Mandrel diameter	Observations
1	8	5 dia	No cracks observed. Passes the test
2	10	5 dia	No cracks observed. Passes the test
3	12	7 dia	No cracks observed. Passes the test.

** As furnished by the client*

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy B

.....End of Report.....

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

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Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/Cubes/2689/2021-22	Date	06-11-2021

TEST RESULTS ON CONCRETE CUBES

Name of Client & Address	Bruhat Bengaluru Mahanagara Palike Office of Executive Engineer Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Sri M.S. Venkatesh, M/s MSV Construction And Company No, 163, 5th Cross, 2nd Main Road, Prakashanagara Bangalore-560021
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Improvements to Roads And Drains And Other Developmental Work in Attur Ward No:03 Under Road Development Head in chief Minister Navanagaraothana of Yelahanka Division (Package-02)
Work Order No	BBMP/EE/YNK.D/EPMT-12/W.O/14/2020-21
Job Code No	003-20-000086
Source of Sample	Casted And Collected from site
Date of Testing	06-11-2021
Dimensions of Specimens in mm	150.00 x 150.00 x 150.00 150.00 x 150.00 x 150.00 150.00 x 150.00 x 150.00
Grade of Concrete	M10

Compressive Strength test as per guidelines of IS-516-1959 has been conducted on the concrete cube specimens supplied by the client and the results are tabulated here below

Sl No	Cubes Pertaining to the concrete Cast at*(Details of structural Member Identification	Date of Casting*	Date of Testing	Age of Concrete on the date of test** (Days)	Contact Area (mm²)	Weight of Specimen (gm)	Load In KN	Compressive Strength in Nmm²
1	PCC Drain Concrete	30-10-2021	06-11-2021	7 Days	22500.00	8326	286.6	12.74
2		30-10-2021	06-11-2021		22500.00	8342	281.4	12.51
3		30-10-2021	06-11-2021		22500.00	8326	286.2	12.72

* As furnished by the client

1N/Sq.mm=10kg/Sq.cm(Approx)

Note; A Minimum of three cube specimens shall be supplied fo testing as per IS:516-1959

For Karnataka Material Test House Pvt Ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy.B

.....End of Report.....

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t No	KMTH/Cubes/2695/2021-22	Date	29-11-2021

TEST RESULTS ON CONCRETE CUBES

e of Client & Address	Bruhat Bengaluru Mahanagara Palike Office of Executive Engineer Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
e of Agency & Address	Sri M.S. Venkatesh, M/s MSV Construction And Company No, 163, 5th Cross, 2nd Main Road, Prakashanagara Bangalore-560021
d Party Consultant	M/s Karnataka Material Test House Pvt Ltd , Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
ne of Project & Address	Improvements to Roads And Drains And Other Developmental Work in Attur Ward No:03 Under Road Development Head in chief Minister Navanagaraothana of Yelahanka Division (Package-02)
rk Order No	BBMP/EE/YNK.D/EPMT-12/W.O/14/2020-21
Code No	003-20-000086
urce of Sample	Casted And Collected from sitet
te of Testing	29-11-2021
mensions of Specimens in mm	150.00 x 150.00 x 150.00
	150.00 x 150.00 x 150.00
	150.00 x 150.00 x 150.00
rade of Concrete	M20

Compressive Strength test as per guidelines of IS-516-1959 has been conducted on the concrete cube specimens supplied by the client and the results are tabulated here below

Sl No	Cubes Pertaining to the concrete Cast at*(Details of structural Member Identification	Date of Casting*	Date of Testing	Age of Concrete on the date of test** (Days)	Contact Area (mm²)	Weight of Specimen (gm)	Load In KN	Compressive Strength in Nmm²
1	Drain wall Concrete	01-11-2021	29-11-2021	28 Days	22500.00	8106	612.4	27.22
2		01-11-2021	29-11-2021		22500.00	8098	608.4	27.04
3		01-11-2021	29-11-2021		22500.00	8124	611.8	27.19

1N/Sq.mm=10kg/Sq.cm(Approx)

* As furnished by the client

Note; A Minimum of three cube specimens shall be supplied fo testing as per IS:516-1959

For Karnataka Material Test House Pvt Ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy.B

.....End of Report.....

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Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/Cubes/2697/2021-22	Date	30-11-2021

TEST RESULTS ON CONCRETE CUBES

Name of Client & Address	Bruhat Bengaluru Mahanagara Palike Office of Executive Engineer Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Sri M.S. Venkatesh, M/s MSV Construction And Company No, 163, 5th Cross, 2nd Main Road, Prakashanagara Bangalore-560021
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Improvements to Roads And Drains And Other Developmental Work in Attur Ward No:03 Under Road Development Head in chief Minister Navanagaraothana of Yelahanka Division (Package-02)
Work Order No	BBMP/EE/YNK.D/EPMT-12/W.O/14/2020-21
Job Code No	003-20-000086
Source of Sample	Casted And Collected from site
Date of Testing	30-11-2021
Dimensions of Specimens in mm	150.00 x 150.00 x 150.00 150.00 x 150.00 x 150.00 150.00 x 150.00 x 150.00
Grade of Concrete	M20

Compressive Strength test as per guidelines of IS-516-1959 has been conducted on the concrete cube specimens supplied by

Sl No	Cubes Pertaining to the concrete Cast at*(Details of structural Member Identification	Date of Casting*	Date of Testing	Age of Concrete on the date of test** (Days)	Contact Area (mm^2)	Weight of Specimen (gm)	Load In KN	Compressive Strength in Nmm^2
1	Culvert wall Concrete	03-11-2021	30-11-2021	28 Days	22500.00	8122	558.6	24.83
2		03-11-2021	30-11-2021		22500.00	8068	535.4	23.80
3		03-11-2021	30-11-2021		22500.00	8108	542.4	24.11

1N/Sq.mm=10kg/Sq.cm(Approx) * As furnished by the client

Note; A Minimum of three cube specimens shall be supplied fo testing as per IS:516-1959

For Karnataka Material Test House Pvt Ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy.B

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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/CCSlabs/2703/2021-22	Date	01-12-2021

TEST RESULTS ON CEMENT CONCRETE SLAB SAMPLES

Name of Client & Address	Bruhat Bengaluru Mahanagara Palike Office of Executive Engineer Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Sri M.S. Venkatesh, M/s MSV Construction And Company No, 163, 5th Cross, 2nd Main Road, Prakashanagara Bangalore-560021
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Improvements to Roads And Drains And Other Developmental Work in Attur Ward No:03 Under Road Development Head in chief Minister Navanagaraothana of Yelahanka Division (Package-02)
Work Order No	BBMP/EE/YNK.D/EPMT-12/W.O/14/2020-21
Job Code No	003-20-000086
Source of Sample	Collected from site
Number of Specimens*	3 No`s Cement Concrete Slabs
Size & Shape of Sample	slab Length -920mm, Height-100mm,Width600mm
Date of Testing	01-12-2021

Compressive Strength test as per the guidelines of IS: 516-1959 has been conducted on the concrete Core Samples extracted and the results are tabulated here below.

Sl No	Cores pertaining to the concrete cast at*(Details of structural member identification)	Diameter in mm	Length in mm	H/D Ratio	Area Sq.mm	Load KN	Comp. Strength. N/Sq.mm	C.F H/D x 0.11 + 0.78	C.C.F N/Sq.mm	E.C.S.C N/Sq mm	Avg. N/Sq mm	Weight of Core in kg	Volume of Core, m3	Density, Kg/m3
100mm Slab														
1	S-01	50.00	100.00	2.00	1963	36.2	18.45	1.00	18.45	23.06	22.2	0.786	0.00020	4005.1
2	S-02	50.00	99.88	2.00	1963	34.0	17.32	1.00	17.32	21.65		0.856	0.00020	4367.0
3	S-03	50.00	99.98	2.00	1963	34.6	17.63	1.00	17.63	22.04		0.866	0.00020	4413.6

*As furnished by the Client

Note; A Minimum of three specimens shall be supplied fo testing as per IS:516-1959

For Karnataka Material Test House Pvt Ltd.,

Prepared & Checked by
Nagaraj K.S

Approved by
Narayanswamy.B

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Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

ort No	KMTH/CCKerbs/2707/2021-22	Date	05-12-2021

TEST RESULTS ON CEMENT CONCRETE KERBS SAMPLES

me of Client & Address	Bruhat Bengaluru Mahanagara Palike Office of Executive Engineer Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
me of Agency & Address	Sri M.S. Venkatesh, M/s MSV Construction And Company No, 163, 5th Cross, 2nd Main Road, Prakashanagara Bangalore-560021
rd Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
me of Project & Address	Improvements to Roads And Drains And Other Developmental Work in Attur Ward No:03 Under Road Development Head in chief Minister Navanagaraothana of Yelahanka Division (Package-02)
rk Order No	BBMP/EE/YNK.D/EPMT-12/W.O/14/2020-21
Code No	003-20-000086
urce of Sample	Collected from site
mber of Specimens*	3 No`s Cement Concrete Kerbs
e & Shape of Sample	Kerbs Length -450mm, Height-400mm,Width-(top-114+bottom-165)mm
te of Testing	05-12-2021

ompressive Strength test as per the guidelines of IS: 516-1959 has been conducted on the concrete Core Samples extracted and the results are tabulated here below:

l No	Cores pertaining to the concrete cast at*(Details of structural member identification)	Diameter in mm	Length in mm	H/D Ratio	Area Sq.mm	Load KN	Comp. Strength. N/Sq.mm	C.F H/D x 0.11 + 0.78	C.C.F N/Sq.mm	E.C.S.C N/Sq.mm	Avg. N/Sq mm	Weight of Core in kg	Volume of Core, m3	Density, Kg/m3
1	S-01	94.89	190.00	2.00	7068	136.4	19.30	1.00	19.30	24.13	24.01	2.6850	0.00134	1999.31
2	S-02	94.98	190.00	2.00	7082	136.2	19.23	1.00	19.23	24.04		2.5860	0.00135	1921.94
3	S-03	94.89	190.00	2.00	7068	134.8	19.07	1.00	19.08	23.85		2.5880	0.00134	1927.08

s furnished by the Client

ote; A Minimum of three specimens shall be supplied fo testing as per IS:516-1959

or Karnataka Material Test House Pvt Ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy.B

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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/WMM/2711/2021-22	Date	03-12-2021

TEST REPORT ON WET MIX MACADAM (WMM)

Name of Client & Address	Bruhat Bengaluru Mahanagara Palike Office of Executive Engineer Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Sri M.S. Venkatesh, M/s MSV Construction And Company No, 163, 5th Cross, 2nd Main Road, Prakashanagara Bangalore-560021
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Improvements to Roads And Drains And Other Developmental Work in Attur Ward No:03 Under Road Development Head in chief Minister Navanagaraothana of Yelahanka Division (Package-02)
Work Order No	BBMP/EE/YNK.D/EPMT-12/W.O/14/2020-21
Job Code No	003-20-000086
Source of Sample	Collected from site
Date of Testing	03-12-2021
Technical Referance	MORTH Specifications

WMM MATERIAL — *10000*

I S Sieve in mm	Wt retained (gms)	Cumulative Weight Retained	Cumulative % Retained	% Passing	% of Passing as per MORTH
53	0	0	0.00	100.00	100
45	321	321	3.21	96.79	95-100
22.4	2692	3013	30.13	69.87	60-80
11.2	2736	5749	57.49	42.51	40-60
4.75	1652	7401	74.01	25.99	25-40
2.36	856.2	8257.2	82.57	17.43	15-30
0.6	742.2	8999.4	89.99	10.01	8--22
0.75	542	9541.4	95.41	4.59	0-5

Sl No	Name of the Test	Results Obtained	Specification as per MORTH
1	Water Absorption	0.89%	Should not be more than 2%
2	Flakiness & Elongation Index	29.6%	Shall not be more than 40%
3	Aggregate Crushing Value	18.4%	Shall not be more than 30%
3	Plasticity Index	NP	Shall not more than 6

** As furnished by the client*

Note : The above tested sample satisfies the requirement of IS:383-2016

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy.B

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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/DGBM/2719/2021-22	Date	06-12-2021

TEST REPORT ON DENSE GRADED BITUMINOUS MACADAM(DGBM)

Name of Client & Address	Bruhat Bengaluru Mahanagara Palike Office of Executive Engineer Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Sri M.S. Venkatesh, M/s MSV Construction And Company No, 163, 5th Cross, 2nd Main Road, Prakashanagara Bangalore-560021
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Improvements to Roads And Drains And Other Developmental Work in Attur Ward No:03 Under Road Development Head in chief Minister Navanagaraothana of Yelahanka Division (Package-02)
Work Order No	BBMP/EE/YNK.D/EPMT-12/W.O/14/2020-21
Job Code No	003-20-000086
Source of Sample	Tested in site (5th Cross Road)
Date of Testing	06-12-2021
Technical Referance	MORTH SPECIFICATIONS

BC MATERIAL	*Weight of sample taken*	*1000*	*gm*	*GRADE-II*

I S Sieve in mm	Wt retained (gms)	Cumulative Weight Retained	Cumulative % Retained	% Passing	% of Passing as per MORTH
37.5	0.0	0	0.00	100.00	100
26.5	39.6	39.6	3.96	96.04	90-100
19	216.8	256.4	25.64	74.36	71-95
13.2	172.4	428.8	42.88	57.12	56-80
4.75	112.4	541.2	54.12	45.88	38-54
2.36	130.2	671.4	67.14	32.86	28-42
0.3	198.8	870.2	87.02	12.98	7--21
0.075	111.2	981.4	98.14	1.86	2--8

Sl No	Wt of Sample before washing in gm	Wt of Dry Aggregates after Washing in gm	Wt of Bitumen in gm	Percentage of Bitumen Content in %
1	515.0	485.2	29.80	5.79
2	520.0	492.2	27.80	5.35
3	512.6	486.2	26.40	5.15
4	514.8	482.4	32.40	6.29

** As furnished by the client*

For Karnataka Material Test House Pvt ltd.,

Prepared & Checked by
Nagaraj K S

Approved by
Narayanswamy.B

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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/BC/2716/2021-22	Date	08-12-2021

TEST REPORT ON BITUMIOUS CONCRETE

Name of Client & Address	Bruhat Bengaluru Mahanagara Palike Office of Executive Engineer Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Sri M.S. Venkatesh, M/s MSV Construction And Company No, 163, 5th Cross, 2nd Main Road, Prakashanagara Bangalore-560021
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Improvements to Roads And Drains And Other Developmental Work in Attur Ward No:03 Under Road Development Head in chief Minister Navanagaraothana of Yelahanka Division (Package-02)
Work Order No	BBMP/EE/YNK.D/EPMT-12/W.O/14/2020-21
Job Code No	003-20-000086
Source of Sample	Tested in site (4th Main Road)
Date of Testing	08-12-2021
Technical Referance	MORTH SPECIFICATIONS

BC MATERIAL	*Weight of sample taken*	*1000*	*gm*	*GRADE-II*
IS Sieve in mm	Wt retained (gms)	Cumulative Weight Retained	Cumulative % Retained	% Passing	% of Passing as per MORTH
19	0.0	0	0.00	100.00	100
13.2	30.2	30.2	3.02	96.98	90-100
9.5	251.4	281.6	28.16	71.84	70-88
4.75	154.8	436.4	43.64	56.36	53-71
2.36	108.4	544.8	54.48	45.52	42-58
1.18	82.4	627.2	62.72	37.28	34-48
0.6	89.6	716.8	71.68	28 32	26-38
0.3	52.4	769.2	76.92	23.08	18-28
0.15	55.4	824.6	82.46	17.54	12--20
0.075	90.4	915	91.50	8.50	4--10

Sl No	Wt of Sample before washing in gm	Wt of Dry Aggregates after Washing in gm	Wt of Bitumen in gm	Percentage of Bitumen Content in %
1	508.0	475.2	32.80	6.46
2	500.0	465.8	34.20	6.84
3	510.0	478.8	31 20	6.12
4	500.0	469.2	30.80	6.16

* As furnished by the client

For Karnataka Material Test House Pvt ltd.,

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Nagaraj K S

Approved by
Narayanswamy.B

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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

Report No	KMTH/PAVER/2723/2021-22	Date	09-12-2021

TEST RESULTS ON PAVER BLOCKS SAMPLES

Name of Client & Address	Bruhat Bengaluru Mahanagara Palike Office of Executive Engineer Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
Name of Agency & Address	Sri M.S. Venkatesh, M/s MSV Construction And Company No, 163, 5th Cross, 2nd Main Road, Prakashanagara Bangalore-560021
Third Party Consultant	M/s Karnataka Material Test House Pvt Ltd , Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
Name of Project & Address	Improvements to Roads And Drains And Other Developmental Work in Attur Ward No:03 Under Road Development Head in chief Minister Navanagaraothana of Yelahanka Division (Package-02)
Work Order No	BBMP/EE/YNK.D/EPMT-12/W.O/14/2020-21
Job Code No	003-20-000086
Source of Sample	Collected From the Site
Number of Specimens*	5 No`s PAVER BLOCKS (200 x 200 x 60mm)
Date of Testing	09-12-2021
Technical Referance	IS:15658-2006, IS2386 P1

COMPRESSIVE STRENGTH

Sl No	*Identification of members	Dimensions in mm			Nominal Area (mm2)	Weight of sample in gm	Failure Load in KN	Compressive Strength- in N/mm2-(L/A)	Compressive Strength x (Correction Factor)	Average Compressive Strength- N/mm2
		L	B	H						
1	SQUARE PAVER	200.0	200.0	60.00	40000.00	5645	1524.00	38.10	40.39	41.93
2		200.0	200.0	60.00	40000.00	5742	1682.00	42.05	44.57	
3		200.0	200.0	60.00	40000.00	5686	1583.00	39.58	41.95	
4		200.0	200.0	60.00	40000.00	5708	1624.00	40.60	43.04	
5		200.0	200.0	60.00	40000.00	5665	1498.00	37.45	39.70	

Note : *Individual paver blocks strength shall not be less than 85% of the specified strength as per IS-15658-2006 clause 6.2.5 page 5*

*As furnished by the client

For Karnataka Material Test House Pvt Ltd.,

Checked & Prepared by
Nagaraj K.S

Approved by
Narayanswamy.B

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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

No	KMTH/PAVER/2725/2021-22	Date	10-12-2021

TEST RESULTS ON PAVER BLOCKS SAMPLES

of Client & Address	Bruhat Bengaluru Mahanagara Palike Office of Executive Engineer Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
of Agency & Address	Sri M.S. Venkatesh, M/s MSV Construction And Company No, 163, 5th Cross, 2nd Main Road, Prakashanagara Bangalore-560021
Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
e of Project & Address	Improvements to Roads And Drains And Other Developmental Work in Attur Ward No:03 Under Road Development Head in chief Minister Navanagaraothana of Yelahanka Division (Package-02)
k Order No	BBMP/EE/YNK.D/EPMT-12/W.O/14/2020-21
Code No	003-20-000086
rce of Sample	Collected From the Site
nber of Specimens*	5 No's PAVER BLOCKS (200 x 200 x 60mm)
e of Testing	10-12-2021
chnical Referance	IS:15658-2006, IS2386 P1

MPRESSIVE STRENGTH

Sl No	*Identification of members	Dimensions in mm			Nominal Area (mm2)	Weight of sample in gm	Failure Load in KN	Compressive Strength- In N/mm2-(L/A)	Compressive Strength x (Correction Factor)	Average Compressive Strength-N/mm2
		L	B	H						
1	SQUARE PAVER	200.0	200.0	60.00	40000.00	5462	1626.00	40.65	43.09	41.97
2		200.0	200.0	60.00	40000.00	5520	1558.00	38.95	41.29	
3		200.0	200.0	60.00	40000.00	5486	1638.00	40.95	43.41	
4		200.0	200.0	60.00	40000.00	5584	1608.00	40.20	42.61	
5		200.0	200.0	60.00	40000.00	5526	1488.00	37.20	39.43	

Note : *Individual paver blocks strength shall not be less than 85% of the specified strength as per IS-15658-2006 clause 6.2.5 page 5*

**As furnished by the client*

For Karnataka Material Test House Pvt Ltd.,

Checked & Prepared by
Nagaraj K S

Approved by
Narayanswamy.B

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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

KMTH/PAVER/2726/2021-22	Date	10-12-2021

TEST RESULTS ON PAVER BLOCKS SAMPLES

& Address	Bruhat Bengaluru Mahanagara Palike Office of Executive Engineer Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
ıcy & Address	Sri M.S. Venkatesh, M/s MSV Construction And Company No, 163, 5th Cross, 2nd Main Road, Prakashanagara Bangalore-560021
onsultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
ject & Address	Improvements to Roads And Drains And Other Developmental Work in Attur Ward No:03 Under Road Development Head in chief Minister Navanagaraothana of Yelahanka Division (Package-02)
r No	BBMP/EE/YNK.D/EPMT-12/W.O/14/2020-21
lo	003-20-000086
Sample	Collected From the Site
f Specimens*	5 No`s PAVER BLOCKS (200 x 200 x 60mm)
esting	10-12-2021
Referance	IS:15658-2006, IS2386 P1

ESSIVE STRENGTH

*Identification of members	Dimensions in mm			Nominal Area (mm2)	Weight of sample in gm	Failure Load in KN	Compressive Strength- In N/mm2-(L/A)	Compressive Strength x (Correction Factor)	Average Compressive Strength-N/mm2
	L	B	H						
SQUARE PAVER	200.0	200.0	60.00	40000.00	5562	1724.00	43.10	45.69	42.26
	200.0	200.0	60.00	40000.00	5620	1685.00	42.13	44.65	
	200.0	200.0	60.00	40000.00	5584	1542.00	38.55	40.86	
	200.0	200.0	60.00	40000.00	5608	1498.00	37.45	39.70	
	200.0	200.0	60.00	40000.00	5486	1524.00	38.10	40.39	

Individual paver blocks strength shall not be less than 85% of the specified strength as per IS-15658-2006 clause 6.2.5 page 5

**As furnished by the client*

For Karnataka Material Test House Pvt Ltd.,

Checked & Prepared by
Nagaraj K S

AE

Approved by
Narayanswamy B

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Karnataka Material Test House Pvt. Ltd.,

Soil Investigation, Concrete and NDT Testing ,Topo Survey, & Project management Consultancy

CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

t No	KMTH/PAVER/2727/2021-22	Date	11-12-2021

TEST RESULTS ON PAVER BLOCKS SAMPLES

of Client & Address	Bruhat Bengaluru Mahanagara Palike Office of Executive Engineer Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
e of Agency & Address	Sri M.S. Venkatesh, M/s MSV Construction And Company No, 163, 5th Cross, 2nd Main Road, Prakashanagara Bangalore-560021
d Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
ne of Project & Address	Improvements to Roads And Drains And Other Developmental Work in Attur Ward No:03 Under Road Development Head in chief Minister Navanagaraothana of Yelahanka Division (Package-02)
rk Order No	BBMP/EE/YNK.D/EPMT-12/W.O/14/2020-21
Code No	003-20-000086
urce of Sample	Collected From the Site
mber of Specimens*	5 No`s PAVER BLOCKS (200 x 200 x 60mm)
ite of Testing	11-12-2021
echnical Referance	IS:15658-2006, IS2386 P1

OMPRESSIVE STRENGTH

Sl No	*Identification of members	Dimensions in mm			Nominal Area (mm2)	Weight of sample in gm	Failure Load in KN	Compressive Strength- In N/mm2-(L/A)	Compressive Strength x (Correction Factor)	Average Compressive Strength-N/mm2
		L	B	H						
1	SQUARE PAVER	200.0	200.0	60.00	40000.00	5624	1498.00	37.45	39.70	42.05
2		200.0	200.0	60.00	40000.00	5634	1628.00	40.70	43.14	
3		200.0	200.0	60.00	40000.00	5582	1588.00	39.70	42.08	
4		200.0	200.0	60.00	40000.00	5624	1632.00	40.80	43.25	
5		200.0	200.0	60.00	40000.00	5528	1588.00	39.70	42.08	

Note : ***Individual paver blocks strength shall not be less than 85% of the specified strength as per IS-15658-2006 clouse 6.2.5 page 5***

**As furnished by the client*

For Karnataka Material Test House Pvt Ltd.,

Checked & Prepared by
Nagaraj K S

Approved by
Narayanswamy B

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ಬ.ಬ.ಪಾ.ಕೆ, ಬೆಂಗಳೂರು-106

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h.:080- 2341 8668, 23511213 **Mobile: 94485 15258** E-mail: kmthblr@gmail.com www.karnatakamaterialtesthouse.com
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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

rt No	KMTH/PAVER/2728/2021-22	Date	11-12-2021

TEST RESULTS ON PAVER BLOCKS SAMPLES

e of Client & Address	Bruhat Bengaluru Mahanagara Palike Office of Executive Engineer Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
e of Agency & Address	Sri M.S. Venkatesh, M/s MSV Construction And Company No, 163, 5th Cross, 2nd Main Road, Prakashanagara Bangalore-560021
d Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
e of Project & Address	Improvements to Roads And Drains And Other Developmental Work in Attur Ward No:03 Under Road Development Head in chief Minister Navanagaraothana of Yelahanka Division (Package-02)
rk Order No	BBMP/EE/YNK.D/EPMT-12/W.O/14/2020-21
Code No	003-20-000086
rce of Sample	Collected From the Site
nber of Specimens*	5 No`s PAVER BLOCKS (200 x 200 x 60mm)
e of Testing	11-12-2021
hnical Referance	IS:15658-2006, IS2386 P1

MPRESSIVE STRENGTH

l No	*Identification of members	Dimensions in mm			Nominal Area (mm2)	Weight of sample in gm	Failure Load in KN	Compressive Strength- in N/mm2-(L/A)	Compressive Strength x (Correction Factor)	Average Compressive Strength-N/mm2
		L	B	H						
1	SQUARE PAVER	200.0	200.0	60.00	40000.00	5582	1584.00	39.60	41.98	40.85
2		200.0	200.0	60.00	40000.00	5608	1524.00	38.10	40.39	
3		200.0	200.0	60.00	40000.00	5622	1526.00	38.15	40.44	
4		200.0	200.0	60.00	40000.00	5592	1526.00	38.15	40.44	
5		200.0	200.0	60.00	40000.00	5548	1547.00	38.68	41.00	

ote : *Individual paver blocks strength shall not be less than 85% of the specified strength as per IS-15658-2006 clause 6.2.5 page 5*

**As furnished by the client*

For Karnataka Material Test House Pvt Ltd.,

Checked & Prepared by
Nagaraj K S

Approved by
Narayanswamy B

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ಕ.ಬ.ಗ.ಪಾ. ಬೆಂಗಳೂರು-೫೬

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CIN No: U74210KA2004PTC035137 G S T No: 29AACCK4994Q1ZI PAN No: AACCK4994Q

rt No	KMTH/PAVER/2729/2021-22	Date	13-12-2021

TEST RESULTS ON PAVER BLOCKS SAMPLES

e of Client & Address	Bruhat Bengaluru Mahanagara Palike Office of Executive Engineer Yelahanka Division, CMC Road, Yelahanka Old Town, Bengaluru-64.
e of Agency & Address	Sri M.S. Venkatesh, M/s MSV Construction And Company No, 163, 5th Cross, 2nd Main Road, Prakashanagara Bangalore-560021
d Party Consultant	M/s Karnataka Material Test House Pvt Ltd., Basaveshwara Layout, Nagashettyhalli, Bengaluru-560094
e of Project & Address	Improvements to Roads And Drains And Other Developmental Work in Attur Ward No:03 Under Road Development Head in chief Minister Navanagaraothana of Yelahanka Division (Package-02)
k Order No	BBMP/EE/YNK.D/EPMT-12/W.O/14/2020-21
Code No	003-20-000086
rce of Sample	Collected From the Site
nber of Specimens*	5 No`s PAVER BLOCKS (200 x 200 x 60mm)
e of Testing	13-12-2021
hnical Referance	IS:15658-2006, IS2386 P1

MPRESSIVE STRENGTH

No	*Identification of members	Dimensions in mm			Nominal Area (mm2)	Weight of sample in gm	Failure Load in KN	Compressive Strength- In N/mm2-(L/A)	Compressive Strength x (Correction Factor)	Average Compressive Strength- N/mm2
		L	B	H						
1	SQUARE PAVER	200.0	200.0	60.00	40000.00	5628	1573.00	39.33	41.68	41.08
2		200.0	200.0	60.00	40000.00	5708	1624.00	40.60	43.04	
3		200.0	200.0	60.00	40000.00	5622	1528.00	38.20	40.49	
4		200.0	200.0	60.00	40000.00	5638	1498.00	37.45	39.70	
5		200.0	200.0	60.00	40000.00	5648	1528.00	38.20	40.49	

te : *Individual paver blocks strength shall not be less than 85% of the specified strength as per IS-15658-2006 clause 6.2.5 page 5*

**As furnished by the client*

For Karnataka Material Test House Pvt Ltd.,

Checked & Prepared by
Nagaraj K S

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